

COMMONWEALTH OF PENNSYLVANIA  
Department of Environmental Protection  
May 27, 2009  
717-705-4876

**SUBJECT:** Source Test Review  
B. Braun Medical, Inc.  
Donaldson Catalytic Ethylene Oxide Abatement System, Source ID S01  
Hanover Twp., Lehigh County  
Title V Operating Permit No. 39-00055  
eFACTS # 1764579

**TO:** Kenneth Wenner  
Air Quality Program  
Bethlehem District Office

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B. Braun Medical, Inc. operates an ethylene oxide medical equipment sterilization process at their Hanover Twp., Lehigh County facility. As a requirement of Title V Operating Permit No. 39-00055 the Donaldson Catalytic Ethylene Oxide Abatement System used to control emissions must be tested to determine the ethylene oxide removal efficiency.

B. Braun Medical, Inc. conducted testing on the abatement system on October 28-30, 2008. Samples were collected in Tedlar bags at the inlet and outlet of the abatement system, then analyzed by gas chromatograph. The test results are acceptable to the Department as a credible representation of the actual emissions under the operating conditions during testing and may be used for compliance determinations.

The following is a summary of data presented in the test report.

**Donaldson Abatement System Ethylene Oxide Removal Efficiency**

Run No.	1		2		3	
Test Date	10/28/08		10/29/08		10/30/08	
Sampling Location	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
Ethylene Oxide Concentration (ppmv)	47.2	8.2	58.8	8.2	38.2	6.6
Ethylene Oxide Removal Efficiency (%)	82.6		86.1		82.7	
Catalyst Bed Temperature (°F)	321		326		328	

Red Data File- B. Braun Medical, Inc., Hanover Twp., Lehigh County  
Virendra Trivedi, Division of Permits, Title V Operating Permit No. 39-00055  
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EPA/AKB  
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Reading File, Source Testing Section